LAZAREV, W.L.,

KHIL'KSVICH, F.A., Inzhener; BAZILEVICH, S.V., inzhener; LAZAREV, V.L.,

inzhener.

Improving the wear of blast furnace refractory linings. Stal' 16
no.12:1057-1072 D'56. (MIRA 10:9)

1. Novo-Fagil'akiv metallurgicheskiv zavod.

(Blast furnaces) (Refractory materials)

ACCESSION NR: AP4036513

S/0103/64/025/005/0696/0701

AUTHOR: Bobrovnik, G. A. (Moscow); Lazarev, V. M. (Moscow)

TITLE: Synthesizing optimum measuring systems containing digital computers

SOURCE: Avtomatika i telemekhanika, v. 25, no. 5, 1964, 696-701

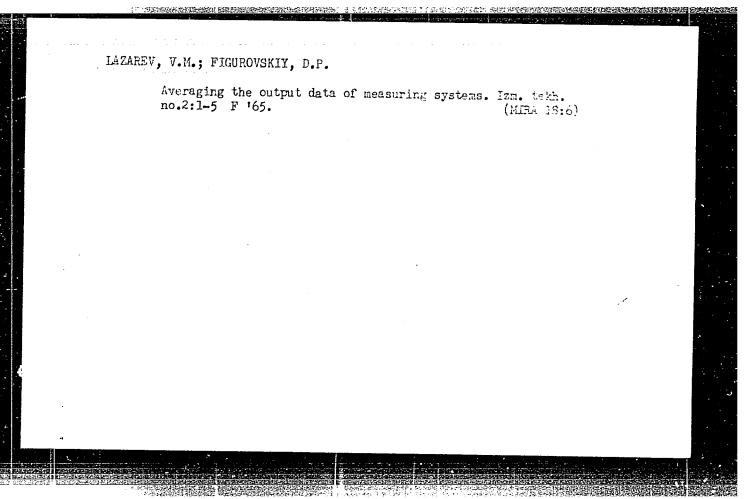
TOPIC TAGS: automatic control, measuring system, digital measuring system, optimum digital measuring system

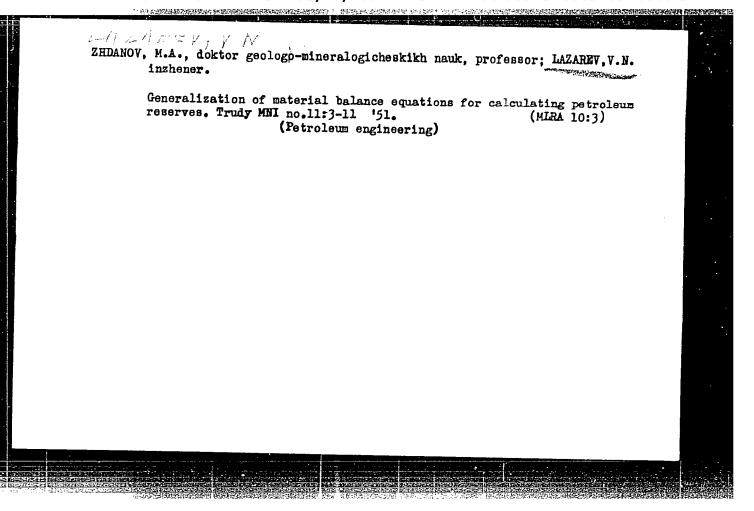
ABSTRACT: Stationary measuring servo systems, used for determining coordinates and parameters of moving objects, generate an estimator that approaches the input function. To improve the approaching process, the use of a digital computer in the predictive measuring system is suggested. Synthesizing mean-square-error-optimized predictive measuring systems containing a digital computer is considered. It is found that the inclusion of digital computers may

substantially improve the smoothness of the measuring system. As compared to

Card 1/2

| ACCESSION NR: AP40365 | | : | 1 | |
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| number of input-signal 3 figures and 35 formu | . Wertametan naeu ju jes en | wantage is higher for mthesis. Orig. art. | r greater has: | |
| ASSOCIATION: none | | | | |
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| AUTHOR | : Lazarev, V. M | .: Figurovskiy | D. P. | 19 | |
| TITLE: | Averaging the out | put of measurin | g systems | 8 | |
| SOURCE | : Izmeritel'naya | ekhnika, no. 2 | , 1965, 1-5 | | |
| | <u> </u> | | tem, measurement | • | |
| | le by averaging a | e considered. | The process of err | or variation in and averaging — a | re |
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| system of examined occurrent of the inventor o | d. Conditions of a ace of averaging e stigation shows th | rrors due to ins at a higher acci | ufficiency of information of the second seco | nation are explo ent by means of | red. the |
| system of examined occurrent occurre | d. Conditions of a ace of averaging e stigation shows th g method can be a | rrors due to ins at a bigher acco chieved only wi | ufficiency of inform | nation are explo ent by means of In estimating t | red. the he |

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| ASSOCIATION: none | | | est en e | | 7 |
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LAZAREV, V.N. (Chelyabinsk): FILIPENKO, V.I. (Rostov-na-Donu); LUKASHEV,
A.M. (Melitopol').

Improve the system of track work operations. Put' i put.khoz.
no.12:4-5 D '57. (MIRA 10:12)

1. Zamestitel' nachal'nika sluzhby puti (for Lazarev). 2. Starshiy
inzhener transportnogo otdela Rostovskogo Sovnarkhoza (for Filipenko).
3. Starshiy dorozhnyy master (for Lukashiv).

(Railroads--Maintenance and repair)

KOZLYAKOV, V.V.; LAZAREV, V.N.; Prinimali uchastiye: VYATLEVA, N.G., inzh.; EARBUZ, V.S., inzh.

Experimental investigation of the plastic-elastic bending of models of inner bottoms in dry cargo ships. Trudy LKI no.38: 75-87 '62. (MURA 16:7)

1. Kafedra stroitel'noy mekhaniki korablya Leningradskogo korablestroitel'nogo instituta (for Kozlyakov). 2. Kafedra konstruktsii sudov Leningradskogo korablestroitel'nogo instituta (for Lezerev).

(Bulls (Naval architecture))

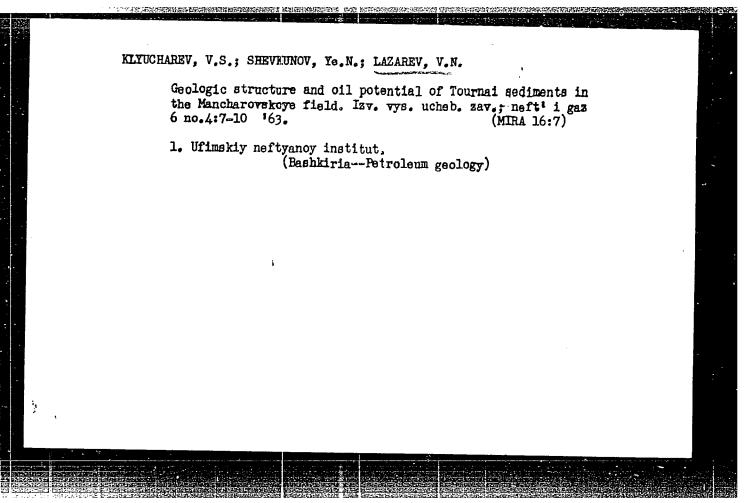
(Deformations (Mechanics))

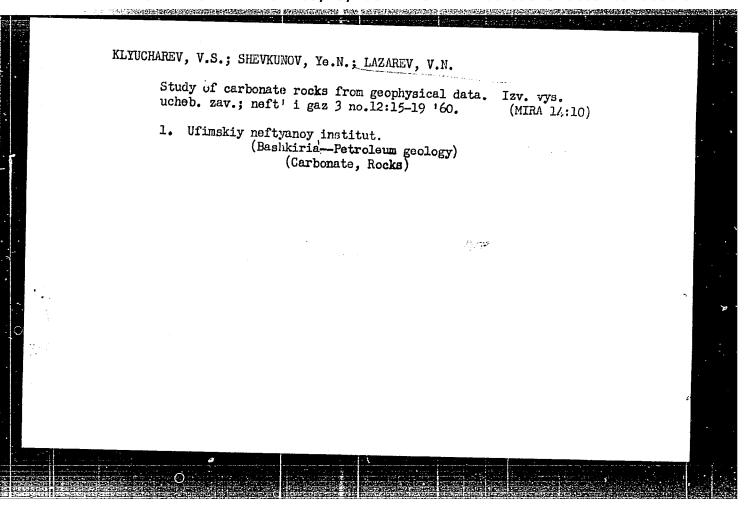
LAZAREV, V.N. (Ufa); DEVLIKAMOV, V.V. (Ufa); YAKUEOV, A.A. (Baku);
KHARITONOV, M.F. (Baku)

Concerning the book by M.A. Zhdanov "Petroleum geology."

Izv. vys. ucheb. zav.; neft' i gaz 6 no.8:110-112 '63.

(MIRA 17:6)





KLYUCHAREV, V.S.; LAZAREV, V.N.

Method for isolating lithologic bands in sediments of the Upper Carboniferous terrigenous formation. Izv. vys. ucheb. zav.; neft' i gaz 5 no.3:19-22 '62. (MIRA 16:8)

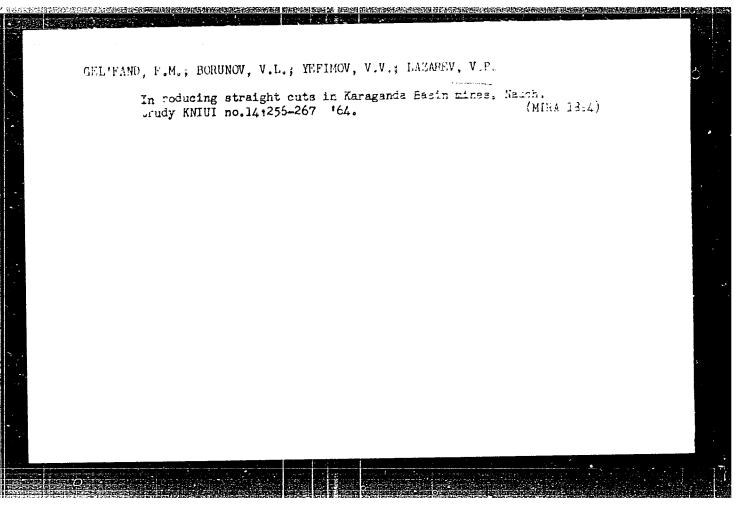
1. Ufimskiy neftyanoy institut.

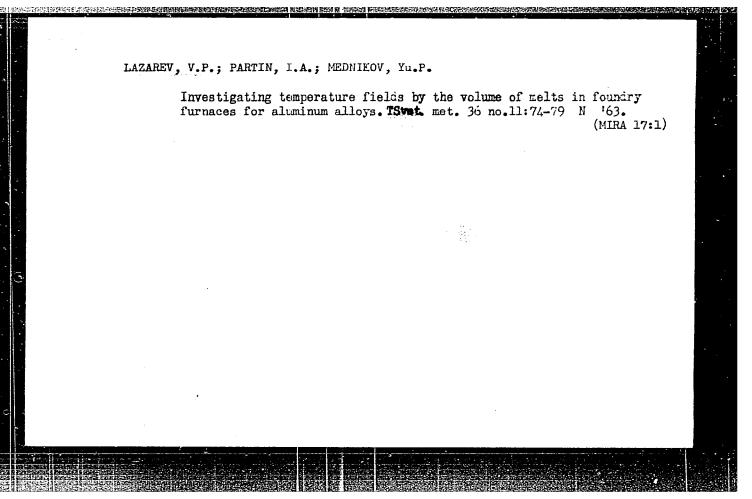
| ACC NR: AP5028549 | SOURCE CODE: UR/0286/65/000 | 37 |
|--|--|--|
| AUTHORS: Lazarev, V. N.; | Minayev, I. I.; Aksenov, V. V. | 13 |
| ORG: none TITLE: A vibration method No. 148544 SOURCE: Byulleten' izobre TOPIC TAGS: vibration efficient instrument ABSTRACT: This Author Cerliquid. To increase the | for determining the surface of a liquid. Steniy i tovarnykh znakov, no. 20, 1965, 162 fect, vibrator, vibration, liquid level indirectificate presents a method for locating the accuracy of level location, a vibrator is p iver in close proximity to the vibrator is e vibrator and the receiver is filled with | e level of a laced in the excited only |
| SUB CODE: 14/ SUBM DATE | • | - |
| BVK Card 1/1 | | |

LAZAREV, V. N.; RAZUMEYEV, A. N. (Leningrad)

Vliyaniye narkotikov razlichnogo tipa deystviya na bioelektricheskiye reaktsii nekotorykh otdelov mozga

report submitted for the First Moscow Conference on Reticular Formation, Moscow, 22-26 March 1960.





Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 10,

p 91 (USSR)

of the state of th

AUTHOR: Lazarev, V. S., Radushev, V. I., Nyrkov, A. A.

TITLE: The Problem of the Mineralogy of the Roof and Floor Rocks of the Coal Layers in the Donbass (Donets Basin) (K voprosu o mineralogicheskom sostave krovli i podoshvy

ugol'nykh plastov Donbassa)

PERIODICAL: Vopr. mineralogii osadoch. obrazovaniy. Books 3-4.

L'vov, L'vovsk. un-t, 1956, pp 337-344

ABSTRACT: The mineralogy of the roof and floor rocks of a number of Middle Carboniferous coal beds has been studied by

X-ray methods, by thermal and chemical analyses, and by

means of the microscope. The samples for study were taken from mines in the Ukrainian Donbass

and from drill holes in the Rostovskaya oblast. The chief rock-forming mineral in the argillites next to the

coal is hydromica of the illite type. Less abundant

Card 1/2 minerals are knolinite, montmorillonite, beidellite,

The Problem of the Mineralogy of the Roof and Floor Rocks of the Coal Layers in the Donbass (Donets Basin)

monothermite, pyrophyllite, dispersed quartz, gibbsite, and nontronite. The hydromicas of the illite type consistently show endothermic reactions at 120° to 180° and 540° to 560° on all the thermal curves. Depending on the ratio of R0 to R₂0₃, illites may be subdivided into alkaline—R0:R₂0₃ < 0.15, normal—R0:R₂0₃ = 0.15-0.70, and alkaline earth—R0?R₂0₃ > 0.70. It was ascertained that alkaline—earth illite is confined to the roof rocks, alkaline illite to the coal beds. Normal illite is present both in the roof rocks and in the floor rocks. Nontronite, pyrophyllite, and monothermite were discovered only in soil from the coal beds. Non-clay minerals in the argillites are present in insignificant quantities and do not differ in composition from those in other clastic rocks of the Donbass. In order to solve the problem of the facies conditions of accumulation of the roof rocks and floor rocks of the coal beds, it is necessary to make broader studies of the mineral composition of the argillaceous rocks enclosing the coal layers. Card 2/2

Ye. V. Ostrovskaya

KOBILEY, A.G.; LAZAREY, V.S.

Lithological survey of coal-bearing deposits of the Donete Basin on the Basis of facies-phase analysis. Trudy Lab.geol.ugl. no.5: 182-191 '56. (WLRA 9:8)

1. Novocherkasskiy politekhnicheskiy institut. (Donets Basin--Goal geology)

SOV-3-58-9-21/36

AUTHOR:

Lazarev, V.S., Candidate of Geological-Mineralogical Sciences

TITLE:

This Was Done at a Vuz (Eto sdelano v vuze). A Device for Projecting Microsections on the Screen (Ustanovka dlya pro-

yektirovaniya shlifov na ekran)

PERIODICAL:

Vestnik vysshey shkoly, 1958, Nr 9, page 66 (USSR)

ABSTRACT:

Practice has shown that the crystallo-optical method of studying minerals and rocks (by means of a polarization microscope) entails certain difficulties. The Chair of Mineralogy and Petrography of the Novocherkassk Polytechnical Institute has therefore developed a method by which all the phenomena observed under a microscope both with one nicol and with two crossed nicols are projected on a screen. An ordinary polarization microscope is used, placed so that the tube is in a horizontal position. To increase the light, an ordinary projector is used. The light ray is directed . through the polarizer to the section and then through the to the screen.

Card 1/2

There is 1 diagram.

SOV-3-58-9-21/36

This Was Done at a Vuz. A Device for Projecting Microsections on the Screen ASSOCIATION: Novocherkasskiy politekhnichęskiy institut (Novocherkassk Polytechnical Institute)

Card 2/2

LAZAREV, V.S.; KOBILEV, A.G.

Typomorphic rocks in the Donets coal-bearing formation and the characteristics of the stratification of typomorphic varieties in sections. Izv.vys.ucheb.zav.; geol.i razv. 2 no.4:68-73 (MIRA 12:12)

1. Novocherkasskiy politekhnicheskiy institut. (Donets Basin--Coal geology)

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NALIVKIN, V.D.; DEDEYEV, V.A.; IVANTSOVA, V.V.; KATS, Z.Ya.; KRUGLIKOV, N.M.;
LAZAREV, V.S.; SVFRCHKOV. G.P.; CHERNIKOV, K.A.; SHABLINSKAYA, N.V.;
Prinimal uchastiye: ZHABREV, I.P.; ROZANOV, L.N.; SOFRONITSKIY, P.A.;
KHAIN, V.Ya.; SIMONENKO, T.N.; SOKOLOV, V.N.; YAKOVLEV, O.N., gidrogeolog

[Comparative analysis of the oil and gas potential and the factorics of the West Siberian and Turan-Scythian platforms.] Sravnitel hyi analysis ne Degazonosnosti i tektoniki Zapadno-Sibirskoi i Turano-Skitskoi plit. Leningrad; Nedra, 1965. 322 p. (Leningrad. Vsesoiuznyi neftianci nauchno-issledovatel skii geologorazvedochnyi institut. Trudy, no.236) (MIRA 18:6)

BABAYEV, M.B.; GASANOV, F.G.; LAZAREV, V.T.; TAIROV, A.A.

Some results of field studies of condensate gas wells drilled in No.? horizons in the Karadag area. Azerb. neft. khoz. 39 no.6:30-34 Je '60. (MIRA 13:10)

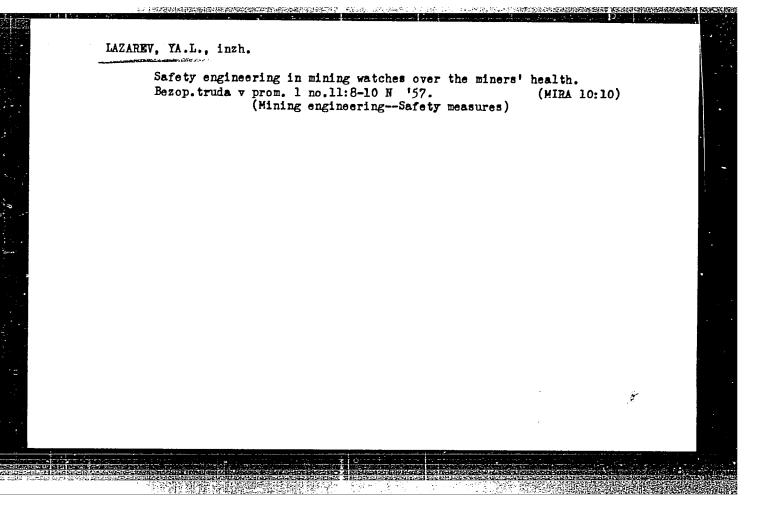
(Karadag region-Condensate oil wells)

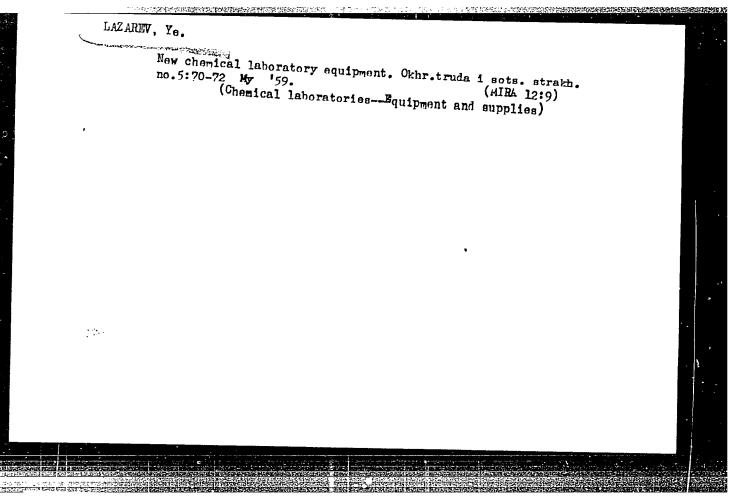
BORISOV, V.I.; LEVIT, Z.Yu., inzh.; KALININ, V.Z., inzh.; BROVKIN, M.G., inzh.; AGAL'TSOV, N.V., inzh.; ZHIGACHEVA, T.F., inzh.; LOBANOV, V.S., inzh.; ALIMOV, M.F., inzh.; VIKEMAN, I.M., inzh.; LAZAREV, Y.Ya., inzh.; ZALEVSKAYA, L.V., tekhnik; SHCHETVINA, R.F., tekhnik; SOKOLOVSKIY, I.A., red.; SHALAGINOV, A.A., vedushchiy red.

[Special and basic equipment of mechanical assembly shops in instrument plants] Nestandartnoe oborudovanie i orgosnastka mekhanicheskikh sborochnykh tsekhov priborostroitel nykh zavodov. Moskva, Otdel nauchno-tekhn. informatsii, 1959. 158 p.

(MIRA 15:4)

(Instrument industry—Equipment and supplies)





BABIN, F., kend.tekhn.nauk; LAZAREV. Ye., kand.tekhn.nauk

Changes in chilled and frozen meat in prolonged storage [with summary
in English]. Khol.tekh. 37 no.2:47-49 My-Ap '60. (MIRA 13:10)

1. Leningradskiy tekhnologicheskiy institut kholodil'noy promyshlennosti (for Babin). 2. Leningradskiy institut sovetskoy torgovli im. F.Engel'sa (for Lazarev).

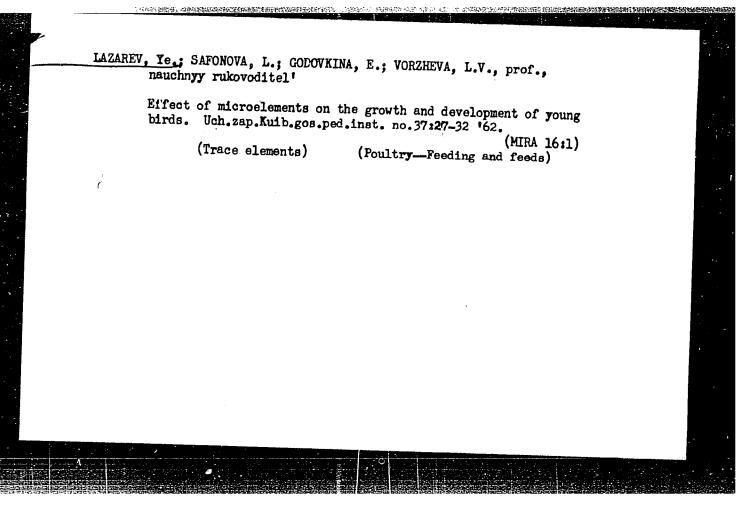
(Meat, Frozen--Storage)

LAZAREV, Ye., khudozhnik-konstruktor

liydrogenerators of Aswan. Tekh. est. 2 no.7:12-14 Jl '65.

(MIRA 18:8)

1. Spetsial'noye khudozhestvenno-konstruktorskoye byuro
Leningradskogo soveta narodnogo khozyaystva.



PATRIK, I.A., kand. sel'skokhoz. nauk; LAZAREV, Ye.F., starshiy nauchnyy sotrudnik

Animal fats and their use in poultry fattening. Trudy TSNIIPPa 9:60-70 '62. (MIRA 16:6)

(Poultry-Feeding and feeds)

Efficient planning and organization of a modern laboratory.
Zav.lai. 28 no.3:331-384 '62. (MIRA 15:4)

1. Leningradskiy filial Akademii stroitel'stva i arkhitektury SSSR. (Laboratories)

MEL'TEVA, N.N.; LAZAREV, Ye.N.; PAVLOVA, V.F.

Protein substances in cabbage. Report No.1: Amino acid composition of protein substances. Izv.vys.ucheb.zav.; pishch.tekh. no.1: 61-63 '64. (MIRA 17:4)

1. Leningradskiy institut sovetskoy torgovli, kafedra organicheskoy khimii i kafedra prodovol'stvennykh tovarov.

LAZAREK, Ye.N.

BEHERRIN, Ye.K., kandidat meditsinskikh nauk; LAZAREV, Ye.N., kandidat biologicheskikh nauk; ROSTAPSHOV, M.F.; BILKBIF, A.F., professor, redaktor.

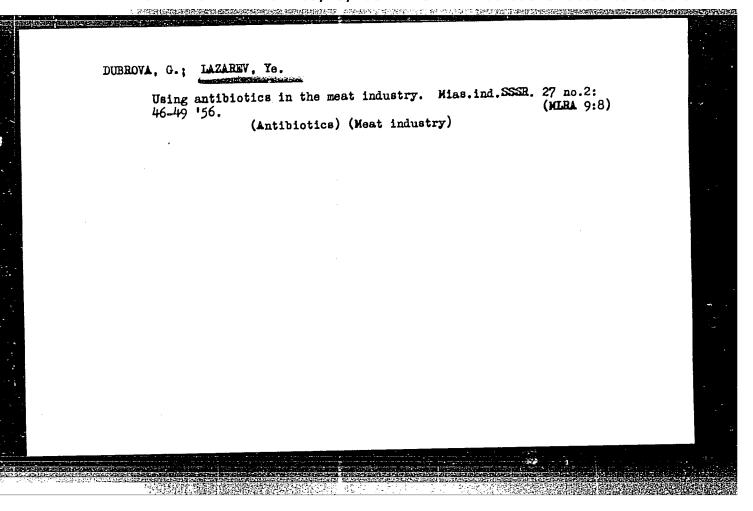
[Biomycin; experimental study of and clinical use of biomycin]
Biomitsin; eksperimental noe izuchenie i klinicheskoe primenenie biomitsina. Otvetstvennyi red. A.F. Bilibin. Chleny red. komissii: E.K.Berezina, E.N.Lazareva, M.F.Rostapshov. Moskva, Gos. izd-vo meditsinskoi lit-ry, 1954. 82 p. (MLRA 7:8)

1. Ghlen-korrespondent Akademii meditsinskikh nauk (for Bilibin) (Antibiotics)

LAZAREV, Ye. N.

LAZAREV, Ye. N. -- "Physicochemical Processes in the Preservation of Refrigerated Meat in Sides and Small Parts." Min Higher Education USSA. Leningrad Technological Inst of the Refrigeration Industry. Leningrad, 1955. (Dissertation for the Degree of Candidate in Technical Sciences)

SOURCE Knizhnaya Letopis', No 6 1956



LAZAREV, Ye. N. (Cand. of Bio. Sci.); AVERVYANOVA, L.L.; GLAGOVSKAYA, R.S.; RYKALEVA, A.M.

"Pharmaceutical Forms of Antibiotics,"

p. 251 Ministry of Health USSR Proceedings of the Second All-Union Conference on Antibiotics, 31 May - 9 June 1957. p. 405, Moscow, Medgiz, 1957.

GABRIEL' YANTS, Mikhail Agaronovich, kand.tekhn.nauk; LAVROVA, L.P., kand.tekhn.nauk, retsenzent; CHOGOVADZE, Sh.K., dotsent, retsenzent; LAZAREV, Ye.N., kand.tekhn.nauk, retsenzent; ZAKS, Ya.A., retsenzent; CHISTYAKOV, F.M., prof., red. [deceased]; KOLCHINSKAYA, N.A., red.; MEDRISH, D.M., tekhn.red.

[Study of meat and most producted m

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[Study of meat and meat products] Tovarovedenie miasa i miasnykh tovarov. Moskva, Gos.izd-vo torg.lit-ry, 1960.

1. Nauchno-issledovatel'skiy institut myasnoy promyshlennosti (for Lavrova). 2. Leningradskiy institut sovetskoy torgovli imeni F.Engel'sa (for Lazarev). 3. Rosmyasorybtorg Ministerstva torgovli RSFSR (for Zaks).

(Meat) (Eggs)

BELOZEROVA, O.P.; POTRAVNOVA, R.S.; RUBTSOVA, L.K.; EYDEL'STEYE, S.I.; LAZAREVA, Ye.N.

Ditetracycline, a prolonged-action tetracycline derivative. Antibiotiki 8 no.10:926-931 0 '63.

(MIRA 17:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov.

DANILOV, Matvey Maksimovich; SUKHANOVA, Ye.Yu., kand. tekhn. nauk, retsenzent; AZAROV, V.N., st. prepod., retsenzent; LAZAREV, Ye.N., dots., retsenzent; AYRIYEVA, N.S., red.; VOLKOVA, V.G., tekhn. red.

[Commercial study of food products; meat and meat products] Tovarovedenie prodovol'stvennykh tovarov; miaso i miasnye tovary. Moskva, Izd-vo "Ekonomika," 1964. 230 p.

1. Nauchno-issledovatel'skiy institut torgovli i obshchestvennogo pitaniya (for Sukhanova). 2. Zaochnyy institut sovetskoy torgovli Ministerstva torgovli RSFSR (for Azarov). 3. Leningradskiy institut sovetskoy torgovli im. Fr.Engel'sa (for Lazarev).

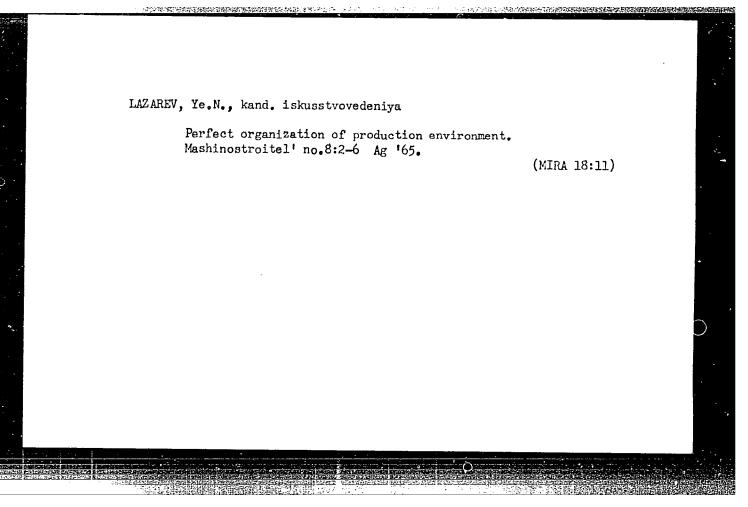
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LAZAREV, Ye.N.; MEL'TEVA, N.N.; PAVLOVA, V.F.

1.10.0.2000 PHILE THE BEST OF THE PARTY OF

Comparison of new varieties of chromatographic paper in the determination of amino acids and their dinitrophenyl derivatives. Lab. delo no.8:453-456 '64. (MIRA 17:12)

l. Kafedra khimii (zaveduyushchiy - prof. A.V.Markovich) i kafedra prodovol'stvennykh tovarov (zaveduyushchiy - prof. A.M.Malkov) Leningradskogo instituta sovetskoy torgovli im. F.Engel'sa.



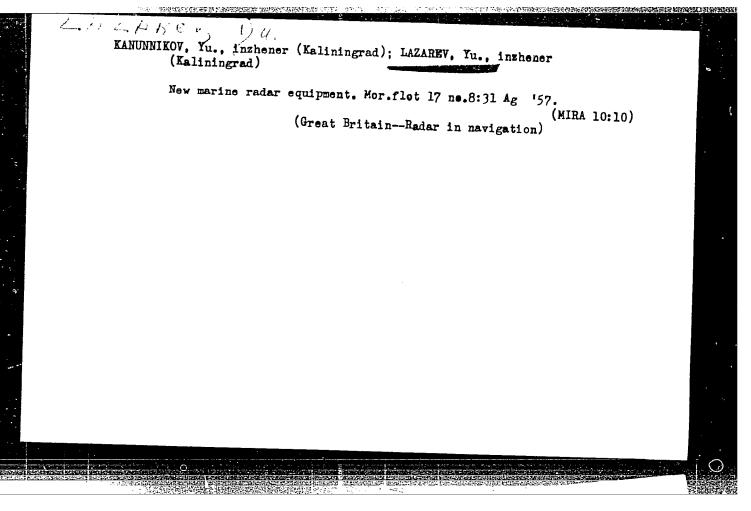
IAZAREV, Ye.V., student

Simple gas generator. Khim. v shkole 17 no.2160-61 Mr-Ap 162.

(MIRA 15:3)

1. Pedagogicheskiy institut, g.Kuybyshev.

(Gas producers)



9.2586

AUTHORS 9

Card 1/4

89647 s/107/61/000/003/002/002 E192/E382 Zakharov, V. and Lazarev, Yu. Electronic Photo-oscillators PERIODICAL: Radio, 1961, No. 3, pp. 48 - 49 The inertia of photo-resistors can be employed to devise a new type of relaxation oscillator. The photoresistor in such an oscillator plays the part of the capacitance and the feedback path is provided by means of the light flux emitted by the neon lamp. A simple circuit illustrating the principle of such an oscillator is shown in Fig. la. The photo-resistor R and the neon lamp are enclosed in a light-The waveform generated at the anode of the tube proof box. The wavelorm generated at the anode of the tube is illustrated in Fig. 16. The principle of operation of is illustrated in Fig. 16. When the key K_1 is open, the neon the system is as follows.

CIA-RDP86-00513R000928920008-3" APPROVED FOR RELEASE: 03/13/2001

lamp is not conducting and $R_{\overline{\Phi}}$ is not illuminated. The anode resistance R_a of the triode is chosen in such a way that when the key K_1 is closed the neon lamp is ignited and

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S/107/61/000/003/002/002 E192/E382

Electronic Photo-oscillators

is illuminated. Now: changes gradually when illuminated and the negative bias at the grid of the triode is gradually increased. Consequently, the anode voltage increases and the drop across $oldsymbol{\mathsf{R}}_{\mathbf{a}}$ is reduced. When the voltage across becomes sufficiently low, the neon lamp Ra becomes extinguished and begins to increase. Consequently the negative grid bias is gradually reduced; this is followed by a gradual voltage drop at the anode until the point is reached when the voltage across Ra is sufficient to re-ignite the neon lamp. The process is now repeated and the system thus behaves as a relaxation oscillator. The frequency of the output pulses of the system depends on a number of factors and cannot easily be evaluated. In particular, the frequency is greatly dependent on the illumination of the photo-resistor by an external source; this property of the oscillator can be Card 2/4

89647

S/107/61/000/003/002/002 E192/E382

Electronic Photo-oscillators

used for measuring various external light sources. The frequency is also dependent on the slope of the tube employed. In pentodes, the slope can be controlled by varying the voltage applied to the screen grid. Consequently, it is possible to design photo-electronic oscillators in which the screen grid potential of the pentode is controlled by means of a photo-resistor. It is therefore possible to control the oscillation frequency of the system by means of an external light source. Two circuits operating on this principle are described. There are 4 figures.

Card 3/4

LAZAKEV. Yu. A

AUTHORS: Druzhinin, V. V. and Lazarev, Yu. A. 126-1-26/40

On the transverse magnetostriction of iron-silicon alloys. TITLE: (O poperechnoy magnitostriktsii zhelezokremnistogo

splava).

PERIODICAL: Fizika Metallov i Metallovedeniye, 1957, Vol.5, No.1, pp. 164-168 (USSR)

ABSTRACT: The results are described of investigation of the transverse magnetostriction of iron-silicon alloys containing 0.4 to 7% Si. The changes in the magnetostriction were effected by wire strain gauges which were not glued on to the specimen, according to a technique described in an earlier paper (Ref.4). Discs of 45 mm dia. were used as specimens; for eliminating the influence of work hardening the discs, which were made of sheet steel, were etched by a solution of blue vitriol. Sheets containing 1 to 4% Si were taken from normal production batches, whilst sheets containing 0.4, 5.0, 5.5 and 7.0% Si were taken from experimental batches. The study was effected on hot and cold rolled steel. The magnetostriction was measured as a function of the magnetisation of the specimen whereby

Card 1/3 the maximum magnetic field during magnetisation was 600 Oe.

On the transverse magnetostriction of iron-silicon alloys.

The magnetisation field of the specimen reached saturation within the limits of 1% and the magnitude of magnetostriction was related to the saturation magnetostriction In hot rolled dynamo steels the $\lambda_{\parallel}(B)$ and $\lambda_{\parallel}(B)$ were recorded for the case of magnetisation of the specimens in the direction and transverse to the direction of rolling. In some specimens the magnetostriction was also measured under the angles of 22.5, 45 and 67.5 relative to the direction of magnetisation. In the cold rolled specimens the magnetisation was effected under the angles 0, 55 and 90 relative to the direction of rolling, i.e. corresponding to the directions of the main crystallographic axes. The results are graphed in Figs. 1-6 and these show that the transverse magnetostriction of iron with 1 to 7% Si contents is in most cases positive in the same way as the longitudinal magnetostriction. The obtained data will be useful in studying the areas of spontaneous magnetisation for ironsilicon sheets.

There are 6 figures and 4 references, all of which are Card 2/3Slavic.

126-1-26/40

On the transverse magnetostriction of iron-silicon alloys.

SUBMITTED: November 1, 1956.

ASSOCIATION: Verkh-Isetskiy Metallurgical Works.

(Verkh-Isetskiy Metallurgicheskiy Zavod).

AVAILABLE: Library of Congress.

Card 3/3

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920008-3

AUTHORS:

Druzhinin, V.V., Lozarev, Yu.A.

32-12-24/71

TITLE:

On the Conditions of the De-Magnetization of Samples of Electrotechnical Steel (Ob usloviyakh razmagnichivaniya obraztsov

elektrotekhnicheskoy stali).

PERIODICAL:

Zavodskaya Laboratoriya, 1957, Vol. 23, Nr 12, pp. 1451-1454 (USSR)

ABSTRACT:

In the introduction it is said that according to the instructions given out by the Soviet State (GOST 302-54) de-magnetization should be carried out with alternating current at 50 cycles frequency and with a gradual decrease of voltage: for the brands of steel "945" and "946" from three AM/cm to 0.002 AM/cm (AM here denotes ampère windings), and for the types of steel "947", "948" and "9370" up to 0.1 AM/cm are used; however, as is mentioned here in the further course, the various circumstances of this process have not yet been fully explained, and to do so is the task of this paper. For the explanation of the ratio between the susceptibility (H) of steel and the duration of time of the de-magnetization process it is assumed, in principle, that the maximum susceptibility H_{max} is = 14 \$\mathscr{L}\$ rsted and the minimum susceptibility H_{mix} = 0.003 \$\mathscr{L}\$ rsted; the actual time taken by the process of de-magnetization amounts to

Oand 1/2

On the Conditions of the De-Magnetization of Samples of Electrotechnical Steel

32-12-24/7:

30, 60 and 120 minutes (according to a table). Numerous examples relating to tests carried out with the brands of steel mentioned are given in this paper; results are shown in form of 2 diagrams. Conclusions: 1.) During the process of de-magnetization every form of motion must be avoided (even touching the sample with a pencil may disturb the process of induction). This disturbance may amount to from 10 to 40%. 2.) Before measuring the field must be switched off before it is switched on again; measuring should be carried out as quickly as possible, because switching on the field produces a weakening effect at H. It is suggested that measuring should be duly carried out rithin one minute. There are 5 figures and 2 tables.

ASSCCIATION: Central Laboratory of the Verkh-Isetsk Metallurgical Plant

(Tsentral'naya laboratoriya Verkh-Isetskogo metallurgicheskogo

zavoda).

AVAILABLE:

Library of Congress

Gard 2/2

1. Degaussing-Methods

CIA-RDP86-00513R000928920008-3" APPROVED FOR RELEASE: 03/13/2001

sov/68-59-6-8/25

Rakov, V.V. and Lazarev, Yu.A. AUTHORS:

A Rapid Method of Rebuilding the Heating Walls of Coke Ovens (Perekladka obogrevatel nykh prostenkov koksovykh TITLE:

pechey skorostnym metodom)

PERIODICAL: Koks i Khimiya, 1959, Nr 6, pp 31-35 (USSR)

ABSTRACT: A Method of rapid rebuilding of small groups of oven

walls was developed and successfully tested in two cases on the Kuznetsk Works. The principles of the method are

1) demolishing of old walls is done as follows: without their preliminary cooling, whereupon some decrease in the temperature of the buffer walls is 2) the temperature of the considered as unavoidable; buffer walls, facing walls under demolition is maintained high by a careful thermal insulation; 3) the

regenerators of the oven under repair and those of the buffer ovens are maintained hot by continuous heating;

4) heating up of the new walls is started immediately Card 1/2 after building and is finished in 6 - 7 days after the

CIA-RDP86-00513R000928920008-3" APPROVED FOR RELEASE: 03/13/2001

SOV/68-59-6-8/25

A Rapid Method of Rebuilding the Heating Wails of Coke Ovens
roof of the oven is covered. The procedure adopted is described in some detail.
There are 4 figures and 1 table.

ASSOCIATION: Knznetskiy Metallurgicheskiy Kombinat (Kuznetsk Metallurgical Combine)

Card 2/2

68885

5.4130

S/051/60/008/02/011/036

AUTHORS:

Bazhulin, P.A. and Lazarev

TITLE:

Investigation of the Raman Spectra in Gases at Low

Pressures Using a Photoelectric Method

PERIODICAL:

Optika i spektroskopiya, 1960, Vol 8, Nr 2,

pp 206 - 213 (USSR)

ABSTRACT:

The authors recorded and measured intensities, widths

and contours of the rotational and vibrational Raman lines

of vapours and gases at pressures of 1-10 atm and temperatures of 30-250 °C. The apparatus used consisted of: (a) a DFS-4 spectrometer with a plane reflection grating with 1 200 lines /mm, a linear dispersion of

6.4 Nmm and a relative aperture of 1:10; (b) a

multiple-reflection cell (with dielectric or aluminized mirrors reflecting 90-95% of light at 4 000 - 5 000 X)

of 600 mm length and 40 mm diameter and two focusing condenser lenses; (c) two low-pressure cooled mercury lamps of 600 mm length; (d) a screening jacket internally

coated with MgO. A battery-fed photomultiplier FEU-17 was used as a receiver. The authors investigated pure

Card1/4

CIA-RDP86-00513R000928920008-3" APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920008-3

68885 s/051/60/008/02/011/036

Investigation of the Raman Spectra in Gases at Low Pressures Using a Photoelectric Method

> $\rm H_2,~o_2,~N_2,~Co_2$ and $\rm CH_4$ gases and their mixtures with argon and helium. A typical spectrogram (representing the rotational Raman spectrum of 0_2 at 3 atm) is shown Isolated lines were treated as described in Figure 1. earlier (Refs 8, 13, 14) using Voigt's functions. For overlapping lines the authors used special methods, partly described in earlier work (Refs 14, 15). From the slope of the straight lines representing dependences of the true widths of the rotational lines on pressure, the effective optical collision cross-sections could be obtained (Figure 2 and Table 1). Within the limits of the experimental error, the optical collision crosssection and the line width were found to be independent of the rotational quantum number j . The optical collision cross-sections deduced from broadening of the rotational Raman lines at $T=300~{\rm K}$ were 4.2 % for 0_2 , 4.1 % for N_2 , 9 % for CO_2 and < 1 % for H_2 (Table 1).

Card2/4

68885 s/051/60/008/02/011/036

Investigation of the Raman Spectra in Gases at Low Pressures Using a Photoelectric Method

The optical cross-section for oxygen, obtained for the authors at 1-10 atm, agreed quite well with the value of 4.5 A found by Mikhaylov (Ref 10) from the rotational Raman spectra at pressures of 10-100 atm, and with the value of 4.35 A deduced by Anderson at al (Ref 19) from the microwave rotational spectrum of $\mathbf{0}_2$ (magnetic

absorption) at pressures of 0.1 - 12 mm Hg. lists values of the collision cross-sections calculated from the gas-kinetic theory. The greatest differences between the optical and gas-kinetic values of the crosssections occurred in the case of H₂ (< 1 and 2.7 Å,

respectively) and in the case of CO_2 (9 and 4.5 R, respectively). Analysis of the vibrational spectra (Tables 3 and 4, Figures 3-5) led to the following results: a) all broad lines are asymmetrical; b) the contours and widths of strongly polarized lines

Card3/4

CIA-RDP86-00513R000928920008-3" APPROVED FOR RELEASE: 03/13/2001

68885

Investigation of the Raman Spectra in Gases at Low Pressures Using

 $(v_1 \text{ and } 2v_2 \text{ of } H_2, o_2, v_2, co_2, v_1 \text{ of } ch_4)$ were independent of pressure between 1 and 10 atm.
Acknowledgment is made to I.I. Sobel man for his advice. There are 5 figures, 4 tables and 34 references, 18 of which are Soviet, 11 English, 1 German and

SUBMITTED: June 22, 1959

Cara 4/4

BAZHULIN, P.A.; LAZAREV, Yu.A.; DESYATOVA, N.V.

Intensity and degree of polarization of the lines of the vibrational Raman spectrum of gaseous butadiene. Opt.i spektr. 13 no.1:75-78 Jl 162. (MIRA 15:7)

(Butadiene-Spectra)

"APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920008-3

P3050 s/194/62/000/010/043/084 A051/A126 A photoelectronic generator with photoconductive cell and neon lamp Zakharov, V.K., Lazarev, Yu.A. Referativnyy zhurnal, Avtomatika 1 radioelektronika, no. 10, 1962, 9.6000 neierativnyy znurnal, Aviomatika i radioetektronika, no. 10, 1902, 4, abstract 10-5-8ts (Tr. Kazakhsk. n.-i. in-ta mineral'n. syr'ya, AUTHORS: TITLE: In the relaxation generator described the capacitor function is per-In the relaxation generator described the capacitor function is performed by an $\Phi C - K1$ (FS-K1) photoconductive cell. Both the photoconductive cell and the people are contained in a light tight chiefly and are contained in a light tight. PERIODICAL: incomed by an QU-Ki (FS-KI) photoconductive cell. Both the photoconductive cell and the neon lamp are contained in a light-tight shield and are arranged one over the other such that the luminous flux of the neon lamp hits more fully the workthe other such that the luminous flux of the neon lamp hits more fully the working part of the cell. An aperture for the exposure to light is provided in the shield. A circuit diagram of the generator is given and its operation is desilietu. A circuit ulagram ol une generator is given and lus operation is de-scribed. The period of generation depends on the voltage fed to the generator, scribed. The period of generation depends on the voltage fed to the generator, and on the degree to which the photoconductive cell is illuminated by the external limits of the property of th and on the degree to which the photoconductive cell is illuminated by the external light source. The pulse shape on the neon-lamp electrodes is almost rectangular with a slight slapp toward the traditional state. nal light source. The pulse snape on the neon-lamp electrodes is almost rectangular with a slight slope toward the trailing-edge side. The generation frequengular with a slight slope toward the trailing-edge side. 1 5/19/16. 1000/010 052/01/ be Card 1/2

CIA-RDP86-00513R000928920008-3" **APPROVED FOR RELEASE: 03/13/2001**

A photoelectronic generator with photoconductive S

S/194/62/000/010/043/034 A061/A126

cy is given as a function of the voltage fed and of illumination by the external light source. A photogenerator with these functions can be employed in luminous-flux measurements, particularly when developing apparatus for spectrum analysis. There are 3 figures and 3 references.

[Abstracter's note: Complete translation]

Card 2/2

s/051/62/013/005/006/017 E202/E192 Broadening of the lines in rotational and rotationalvibrational Raman spectra in the gaseous phase PERIODICAL: Optika i spektroskopiya, v.13, no.5, 1962, 655-662 AUTHOR: From the broadening of purely rotational spectra TEXT: pure the producting of purely rotational spectra of control diameters of pure homogeneous gases viz. CO2, C2H2 and C0 optical diameters of the mixtures of any one of the mixtures of any one of TITLE were determined. Optical diameters of the mixtures of any one of the above makes with any one of the following were also determined were determined. Optical diameters of the mixtures of any one of the above gases with any one of the following were also determined:

He. Ar. CHI. The experimental techniques used were identical with the above gases with any one of the following were also determined:
He, Ar, CHL. The experimental techniques used were identical with
those previously described (D.A. Baybulin, Vu. A. Lazaray, Ont. i those previously described (P.A. Bazhulin, Yu.A. Lazarev, Opt. i TEXT: spektr., 8, 1960, 206). The pressure varied within 1 = 10 atm for Calla, which did not exceed 2 atm), and the temporate spektr., o, 1900, 2001. The pressure varied within 1 = 10 atm (except for C2H2, which did not exceed 2 atm), and the temperature (except for C2H2, which did not exceed 2 atm), and the ten was kept at approximately 30 °C. A striking relation was was rept at approximately jo to A strains relation was discovered between the line broadening and the rotational quantum particularly accurate number in the approximately accurate number j, in the spectrum of acetylene. Particularly accurate measurements of line broadening of the co. retational enectrum number J, in the spectrum of acetytene. Particularly accurate neasurements of line broadening of the CO2 rotational spectrum and rotation-wibrational spectrum of Oo were claimed. It was found measurements of line of oddening of the overlained. It was found rotation-vibrational spectrum of 02 were claimed. It was found generally that the real line profile was dispersed and the width Card 1/2

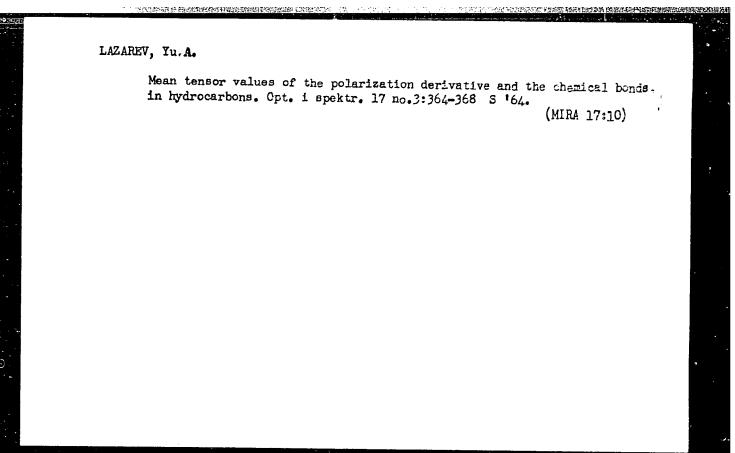
Broadening of the lines in ...

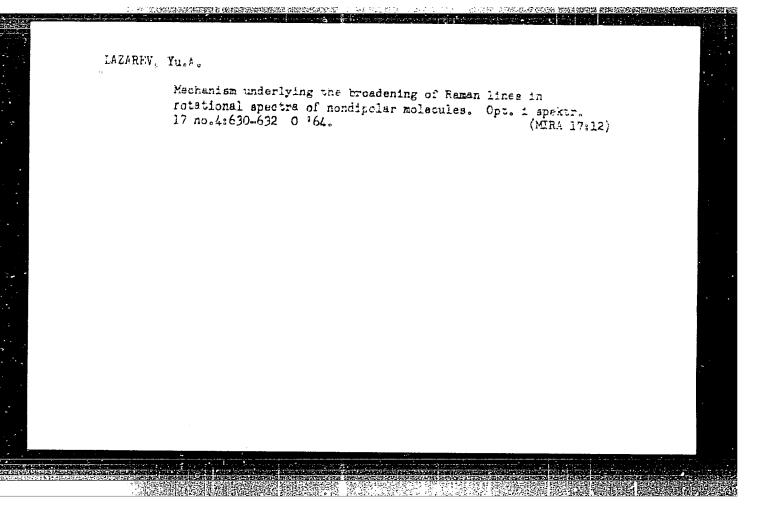
S/051/62/013/005/006/017 E202/E192

for the 1-10 atm pressure range was related linearly to the density. The $\Delta V/\Delta p$ (cm⁻¹/atm) depended, as a rule, slightly on j, at least for frequency intervals corresponding to the most nature of the gaseous admixture. Experimental values of the optical diameters quoted were derived from the $\Delta V/\Delta p$ values the theoretically calculated diameters for the interacting pairs of the diameters. The work is concluded with a brief discussion and dipole, induced dipole-quadrupole, dipole-quadrupole, quadrupole-quadrupole, quadrupole-there are 1 figure and 3 tables.

SUBMITTED: September 23, 1961

Card 2/2





L 34875-65 ENT(1)/EEC(t) Peb IJP(c)

ACCESSION NR: AP5005045

8/0051/65/018/002/0311/0317

AUTHOR: Lezerev. Yu. A.

TITLE: Allowance for apparatus distortions of true values of impact broadening of Raman lines in rotational and rotational-vibrational spectra

SOURCE: Optika i spekuroskopiya, v. 18, no. 2, 1965, 311-317

TOPIC TAGS: line broadening, Raman spectrum, rotational spectrum, vibrational spectrum, apparatus error, spectral analysis

ABSTRACT: The author describes some of the special methods employed to determine the true values of impact broadening of Raman lines in the investigation of optical cross sections of molecules. The investigations themselves are described elsewhere (Opt. i spektr., v. 8, 206, 1960 and v. 13, 655, 1962). The described methods of illuminating the apparatus function is based on the fact that the spectral line of the exciting source (water-cooled mercury lamp) can be approximated by a Gaussian distribution, so that the observed contour line can be described by a Voigt function, which is the convolution of the dispersion and

Card 1/2

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000928920008-3"

L 34875-65

ACCESSION NR: AP5005045

Gaussian functions. The accuracy with which the true parameters of isolated lines can be determined in this manner is discussed. It is shown further that in spectra of gases, where the rotational structure is complex, there is no developed procedure for the interpretation of such spectra, except for the special case of equidistant lines of equal intensity and equal dispersion shape, where approximations with Airy functions can be used. Cases when satisfactory results can be obtained for strongly overlapping lines and some spectral parameters are known are briefly discussed. Orig. art. has: 9 figures and 3 formulas.

ASSOCIATION: None

SUBMITTED: 09Jan64

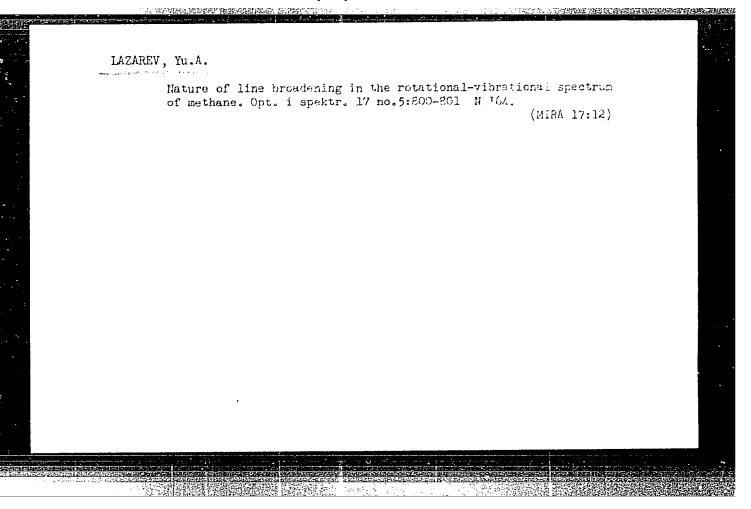
ENCL: OG

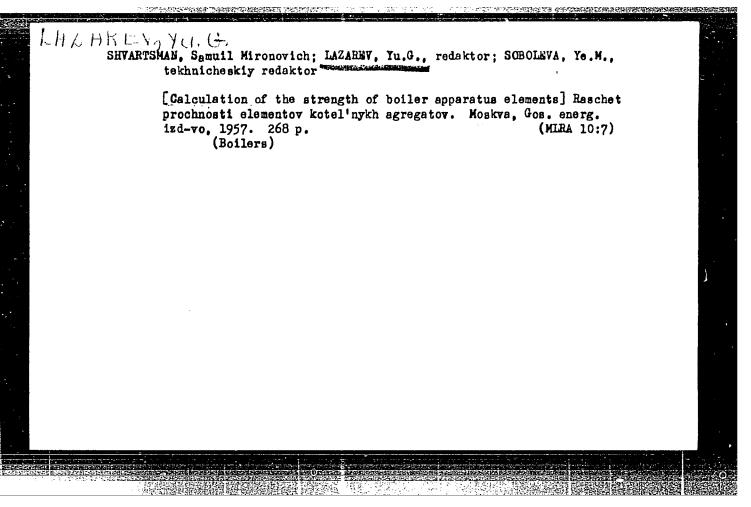
EUB CODE: OP

HR REF SOV: 009

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Card 2/2





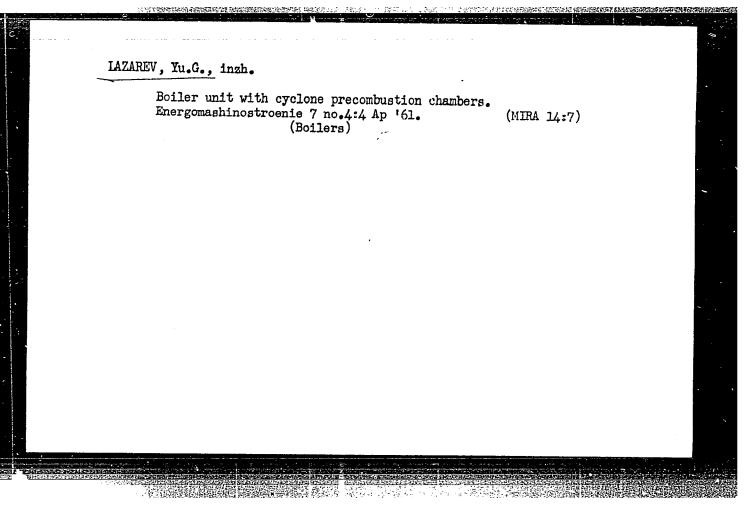
KISEL GOT, M. L., and KISELEV, P. I. (Cand. Tech. Sci.) LAZAREV, Yu. G., DIMNOV, I. M., MURAVKIN, B. N. (Engr.) and MAKSIMOV, V. M. (Cand. Tech. Sci.)

"Questions of Fuel Preparation."

A Scientific-Technical Conference on Auxiliary Equipment for Power Station Boiler-Houses.

Moscow, 17 - 20 Dec 1957.

Teploenergetika, 1958, No. 4, pp. 90-91 (USSR)



BURGVITS, G.A., inzh.; DIANOV, I.M., inzh.; KUSHNIKOV, B.D., inzh.;

LAZAREV, Yu.G., inzh.; KENDYS', P.N., kand.tekhn.nauk

Use of high-speed shaft mills for coal crushing. Energomashinostroenie
7 no.10:19-22 0 '61. (MIRA 14:10)

(Coal, Pulverized) (Eoilers—Firing)

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000928920008-3"

NIKITIN, Yu.K.; STRAKHOV, V.M.; LAZARSV, Yu.O.

Uniformity of the heating of the coal charge in large caparity
ovens. Eoks i khim. no.7:23-25 165.

1. Kuznetskiy filial Vostochnege unlekhimicheskogo instituta (for
Nikitin, Strakhov). 2. Kuznetskiy metallurgi heskiy komponet (for
lazarev).

CIA-RDP86-00513R000928920008-3 "APPROVED FOR RELEASE: 03/13/2001

SHOHERBAROV, A. P., TARREVA, A. I.

Trees; Growth (Flants)

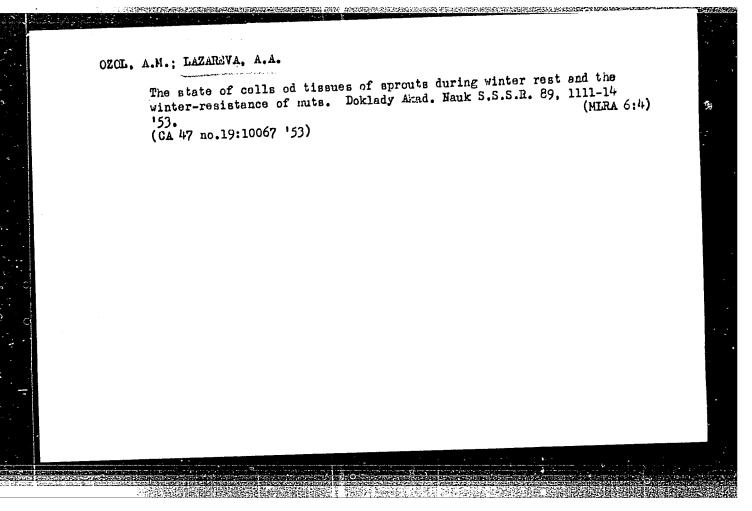
Periodicity of growth and the accumulation of dry substance in two-year-old tree seedlings. Biul. MOIP. Otd. biol. 57 no. 1, 1952

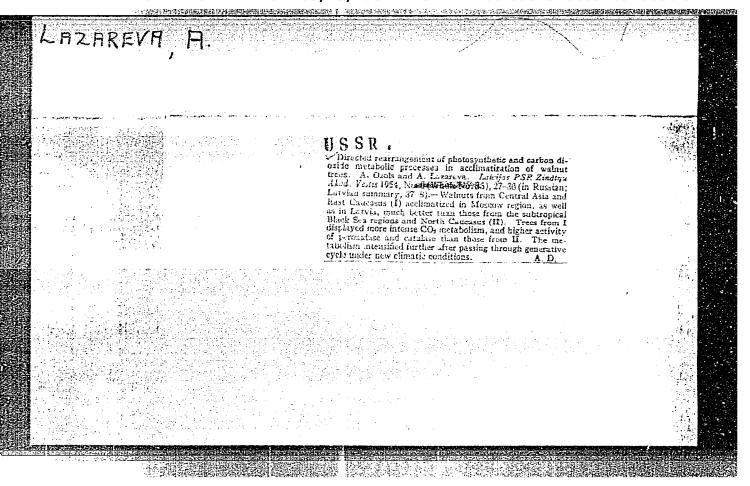
SO: Monthly List of Russian Accessions, Library of Congress,

1953, **U**ncl.

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000928920008-3"





KOROLEV, I.A.; LAZAREVA, A.A.

Hydrochemical characteristics of ground waters in the aera of the Azov irrigation system. Gidrokhim. mat. 31:171-182 '61.
(MIRA 14:3)

1. Gidrokhimicheskiy institut Akademii nauk SSSR, g. Novocherkassk. (Azov Canal region—Water, Underground)

LAZAREVA, A.G.

Potatoes

Using intravarietal cross-breeding in selection of potatoes. Sel. i sem., 19, No. 9, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. UNCLASSIFIED.

LAZAREVA, A. G.

"The Effect of Vegetative Similarity on Sexual Heredity in the Interspecies Hybridization of Potatoes." Cand Biol Sci, All Union Sci Res Inst of Plant Protection, All Union Order of Lenin Acad Agricultural Sci imeni V. I. Lenin, Leningrad, 1954. (KL, No 7, Feb 55)

SO: Sum. No. 631, 26 Aug 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14).

LAZAREVA,

USSR / Cultivated Plants. Fruits, Herries.

M-7

Abs Jour

: Ref Zing - Biologiya, No 13, 1958, No. 55719

Author

: Nesterov, Ya. S.; Dragozhinskeya, V. M.; Rolinikova,

K. D.; Lazareva, A. G.; Gusev, P. P. : All-Union Institute of Plant Cultivation

Inst

Title

: Rest Varieties of Fruit-Berries and Nut Crops for

Production Development

Orig Pub

: Michurinck. sb., Krasnodar, "Sov. Kubani", 1957, 48-61

Abstract

: The world assertment of fruit-berries and nut crops was studied in the Maikop experimental station of the All-Union Institute of Plant Cultivation. Over 4500 varieties are grown in their collections: about 1300 applo tree varieties, 550 pears, 1500 plums, Prumus divaricata and other varieties. As a result of the study of the world collection of apple trees, 53

varieties were regionalized, 168 varieties were singled

card 1/3

CIA-RDP86-00513R000928920008-3" APPROVED FOR RELEASE: 03/13/2001

M-7

USSR / Cultivated Plants. Fruits, Perries.

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58719

out for variety testing. From the pear trees 25 of the best varieties of various periods of ripening were selected. 42 varieties of plums and prunes were singled out. 18 of them were regionalized in the singled out. 18 of them were regionalized in the kray and 19 were accepted for testing in the southern to the standard assortment of the kray, were selected and the standard assortment of the kray, were selected and submitted for variety testing from 500 varieties and submitted for variety crops. There are 125 varieties and specie-samples of berry crops. There are 125 varieties and species of nut crops in the station's collections. and species of "funduk" and 6 elite forms of walnut 12 varieties of "funduk" and 6 elite forms of walnut were selected and recommended for testing. From the hybrid fund of the station were chosen 40 elite seedings, from which 2 strawberry varieties, 13 elite seedlings of apple tree, and 20 elite seedlings of

card 2/3

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USSR / Cultivated Plants. Fruits, Berries.

M-7

Abs Jour : Ref Zhur - Eiclogiya, No 13, 1958, No. 56719

prunes were selected. Brief descriptions of the best varieties and of the hybrids are given. -- A. M. Shevchenko

Card 3/3

LAZAREVH,

14-7 USSR / Cultivated Plants. Fruit Trees. Small

Fruit Trees.

Abs Jour: Ref Zhur-Biol., 1958, No 16, 73154.

Author : Lazareva, A.

: New Strawberry Varieties in Krasnodarskiy Kray. Inst Title

Orig Pub: Sad i ogorod, 1957, No 2, 41.

Abstract: Brief characteristics of 'Rannyaya mosvir" and "Chernobrivka" varieties which are widespread in

the Kray and were brought out by the Maykopskaya

Experimental Station in 1936.

Card 1/1

138

APPROVED FOR RELEASE: 03/13/2001 CIA-RDP86-00513R000928920008-3"

Parent material and methods for breeding new strawberry varieties in southern U.S.S.R. Agrobiologia no. 1:134-135 Ja-F '61. (MIRA 14:2)

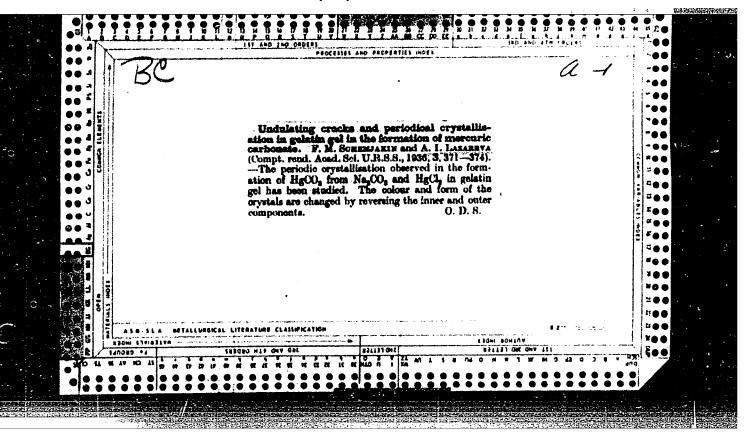
1. Maykopskaya opytnaya stantsiya Vsesoyuznogo instituta rasteniyevodstva. (Strawberry breeding)

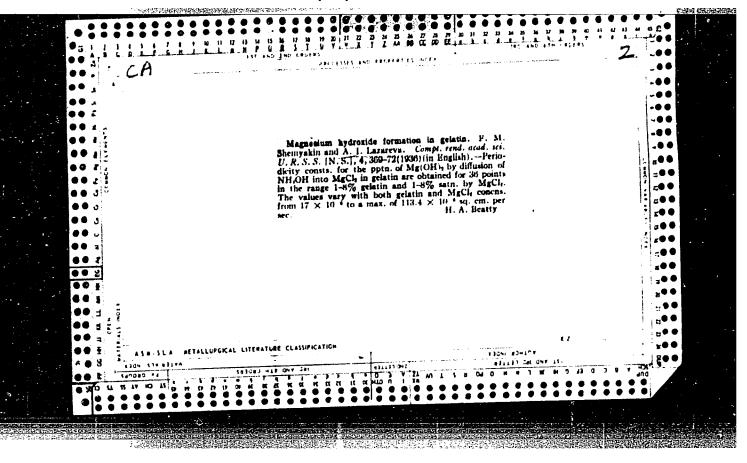
LAZAREVA, A.G., kand.biolog.nauk

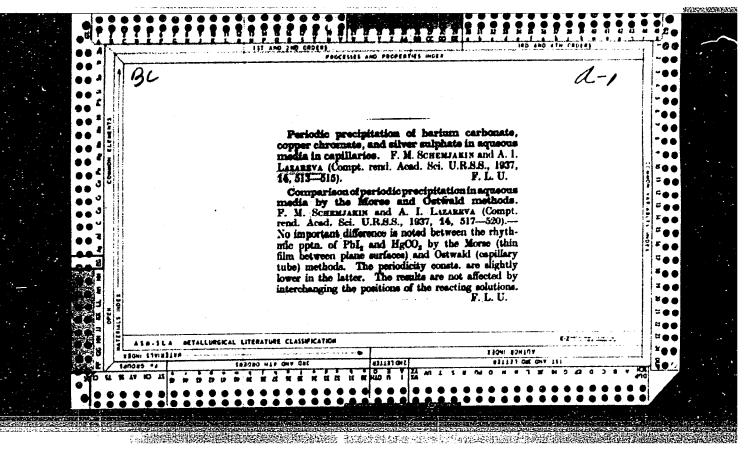
Cultivation practices in berry protection. Zashch. rast. ot vred.
i bol. 8 no.5134-35 My '63. (MIRA 16:9)

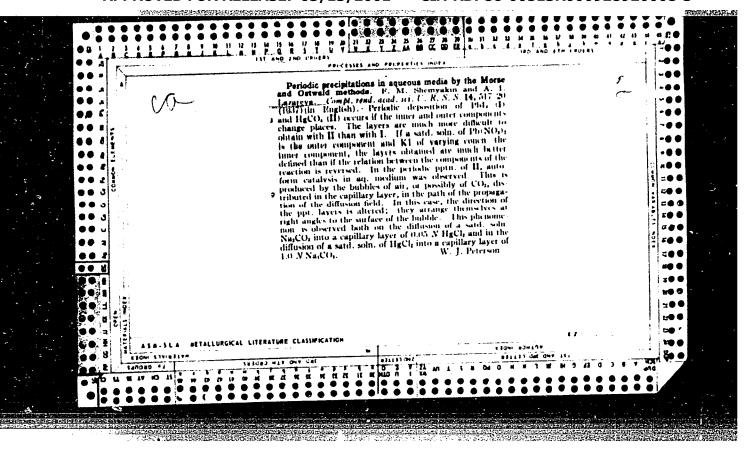
1. Maykopskaya opytnaya stantsiya Vsesoyuznogo instituta rasteniyevodstva.

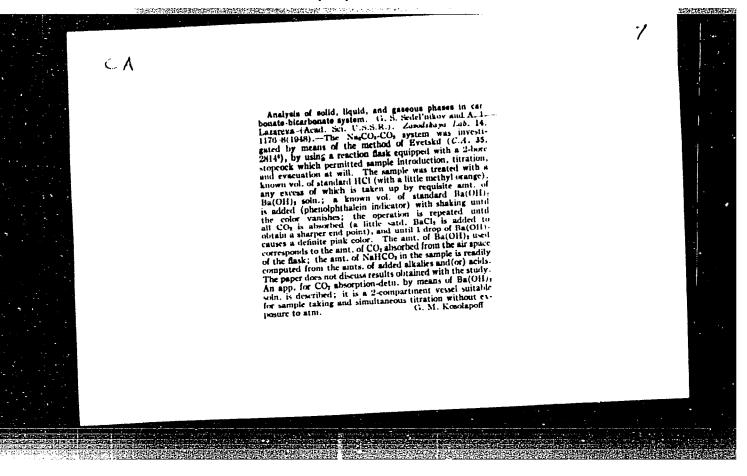
(Caucasus, Northern-Berries-Diseases and pests)











LAZAREVA, A. I.

USSR/Chemistry - Salts Brines

Aug 49

"Preparing Complex Salts Crystallized From the Brines of Kara-Bogaz-Gol," I. G. Druzhinin, V. I. Nikolayev, I. S. Chelyadina, A. I. Lazareva, Inst of Gen and Inorg Chem, Acad Sci USSR, 6 pp

"Zhur Prik Khim" Vol XXII, No 8

Kara-Bogaz-Gol brines give variable yields of salts, depending on the temperature. At 0° C, there is a relatively high yield of magnesium sulfate; above 25° C, astrakhanite is obtained; and below 0° C, mirabilate is the chief product. Saturated sodium sulfate solutions yield as much as 268 kg of mirabilate per 1 cubic meter of solution. Submitted 5 Jan 49.

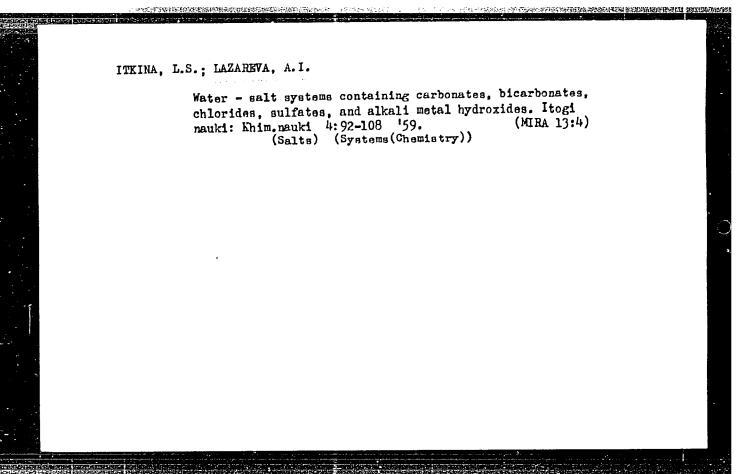
P 67/49172

LAZAREVA, A. I.

Dissertation: "The Solubility and Partial Pressure of Carbon Dioxide in the System Sodium Carbonate - Sodium Bicarbonate - Water." Cand Chem Sci, Inst of General and Inorganic Chemistry imeni N. S. Kurnakov, Acad Sci USSR, 23 Jun.54. (Vechernyaya Moskva, Moscow, 14 Jun 54)

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SO: SUM 318, 23 Dec 1954



CIA-RDP86-00513R000928920008-3 "APPROVED FOR RELEASE: 03/13/2001

5 (1) AUTHORS:

Sedel'nikov, G. S., Lazareva, A. I.

507/64-59-5-9/28

TITLE:

Preparation of Soda, Potash, and Potassium Sulphate From

Solutions of Alumina Production

PERIODICAL:

Khimicheskaya promyshlennost', 1959, Nr 5, pp 401 - 404 (USSR)

ABSTRACT:

According to data by the Volkhovskiy alyuminiyevyy zavod (Volkhov Aluminum Plant), larger quantities of spent lyes (specific weight 1.20) of the following composition are ob-

tained in the production of alumina from nephelines:

95 g/1 Na₂0, 43 g/1 K₂0, 85 g/1 CO₂, 5 g/1 50_3 . For years

these spent lyes have been processed by a three-stage evapora tion in this plant, whereby, however, the potash, soda, and potassium sulphate obtained are rendered impure. In order to obtain a complete separation of the salts, the phase diagram of the systems $K_2^{CO_3} + 2 \text{ NaHCO}_3 + H_2^{O}$; $K_2^{CO_3} + \text{Na}_2^{SO_4} + H_2^{O}$;

 $Na_2SO_4 + 2 \text{ KHCO}_3 + H_2O_3$ and 2 K^+ , $2 Na^+ \text{ M} CO_3^{2-}$, $2 HCO_3^{-}$,

 SO_{A}^{2-} + $H_{2}O$ (I), respectively, must be thoroughly investigated. The solid phases (containing the sulphates) are more readily

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soluble in the bicarbonate solution, less soluble in the partly carbonized solution (in the presence of Na3H (CO3)2°2H2O), and considerably less soluble in solutions without bicarbonate ions (i.e. when the monohydrate is separated). Proceeding from this assumption, a scheme for a fractional orystallization of the salts was suggested basing on the difference in solubility of salts in the five- component system (I). The course of crystallization and the separation of salts are represented by solubility- and crystallization diagrams in (I) (Fig 1); the composition of individual solutions in the various stages of salt separation is also given (Table 1). The devised separation scheme was investigated on an experimental plant of the Vsesoyuznyy institut sodovoy promyshlennosti (All Union Institute of Soda Industry) in the Slavyanskiy sodovoy zavod (Slavyansk Soda Plant) (Fig 2 : scheme of the plant; Table 2 : composition of the salts obtained). A description of the plant and the working process is given. Bubble columns of the kind of the bicarbonate column of the Donetskir sodovoy zaved (Donetsk Soda Plant) are used; it is pointed out that according

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to the experience collected by the zavod khimicheskikh reaktivov v Stalino (Stalino Plant for Chemical Reagents) stainless steel 1Kh18N19T may be used as construction material for the plant. In accordance with the method described the salts may be completely separated. The potash obtained need not be subjected to a subsequent purification. No caustic potashis needed for neutralization. A standardized plant may be used which can be installed in alumina works already in operation or presently being planned. There are 2 figures, 2 tables, and 9 Scviet references.

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SEDEL'NIKOV, G.S.; LAZAREVA, A.I.

Bromine in Kara-Bogaz-Gol brines. Zhur.neorg.khim. 9 no.1:196-202

Ja '64.

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SOY/112-58-2-3465

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1958, Nr 2, p 255 (USSR)

AUTHOR: Golostenov, G. A., Derbisher, T. V., and Lazareva, A. N.

TITLE: A 15,000 Lumen Movie Projector Arc Lamp (Dugovaya lampa kinoproyektora na 15 000 lm)

PERMODICAL: Tr. Vses. n.-i. kimsfotoin-ta, 1957, Nr 1(P), pp 17-23

ABSTRACT: A new powerful movie projector has been developed with a 15,000-lm luminous flux for use in wide-screen and conventional movie theaters and also for outdoor projection. To secure the required luminous flux, a new illuminating system has been designed that comprises one elliptic 450-mm diameter reflector with a relative opening of 1:1.8. Special rotating positive 11-mm, 120-amp carbons have been developed for the new arc lamp. A cooling system, and the material for the current-carrying contacts of the positive carbons that considerably improve its operation, have been selected experimentally. Local far ventilation has been developed to cool the housing and reflector; to control the arc lamp, an electric photoresistor circuit has been developed.

N. V. Ch.

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